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NOTICE OF ALLOWANCE AND FEE(S) DUE

36716

7590

09/17/2009

LADAS & PARRY 5670 WILSHIRE BOULEVARD, SUITE 2100 LOS ANGELES, CA 90036-5679 EXAMINER

MALEVIC, DJURA

ART UNIT PAPER NUMBER

2884 DATE MAILED; 09/17/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585.673	10/26/2006	Hiroyuki Takahashi	B-6037PCT 623562-9	4702

TITLE OF INVENTION: PARTICLE DETECTION DEVICE AND PARTICLE DETECTION METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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36716	7590 09/17	/2009			icate of Mailing or Trans	mission	
LADAS & PARRY 5670 WILSHIRE BOULEVARD, SUITE 2100 LOS ANGELES, CA 90036-5679			I he State addr trans	reby certify that this es Postal Service with essed to the Mail S smitted to the USPTC	Fee(s) Transmittal is being h sufficient postage for fir stop ISSUE FEE address O (571) 273-2885, on the d	g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.	
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	Α	TTORNEY DOCKET NO.	CONFIRMATION NO.	
10/585,673	10/26/2006	•	Hiroyuki Takahashi	•	B-6037PCT 623562-9	4702	
TITLE OF INVENTION	: PARTICLE DETECTI	ON DEVICE AND PAR	IICLE DETECTION MET	HOD			
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/17/2009	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
MALEVIO	C, DJURA	2884	250-385100	•			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. 		nge of Correspondence	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Unrecordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assignee assignment. and STATE OR CO	UNTRY)	ocument has been filed for	
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	s SMALL ENTITY statu	is. See 37 CFR 1.27.		<u> </u>	ENTITY status. See 37 C		
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LADAS & PAR	RY	MALEVIC, DJURA			
5670 WILSHIRE BOULEVARD, SUITE 2100			ART UNIT	PAPER NUMBER	
LOS ANGELES,	CA 90036-5679		2884		
			DATE MAILED: 09/17/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 631 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 631 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/585,673	TAKAHASHI ET AL.
Notice of Allowability	Examiner	Art Unit
	DJURA MALEVIC	2884
The MAILING DATE of this communication apperature. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap) or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS
2. X The allowed claim(s) is/are <u>1-11,13-26,28,32 and 59-66.</u>		
3. Acknowledgment is made of a claim for foreign priority unally All b) □ Some* c) □ None of the: 1. □ Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 3. ☒ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) including changes required by the Notice of Draftspers		948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)		(PTO-413),
 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 12/22/2006 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	Paper No./Mail Da 7. Examiner's Amenda 8. Examiner's Statema 9. Other	re ment/Comment ent of Reasons for Allowance
/Djura Malevic/ Examiner, Art Unit 2884		

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement filed 12/22/2006 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein that's crossed out has not been considered. In this instance, a copy of the Kai et al. non-patent literature publication was not provided.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brain Cash on 07/14/2009.

The application has been amended as follows:

Add the following to the beginning of the 1st paragraph of the specification:

Cross-reference to Related Applications

This application is a U.S. national stage entry of the international application

PCT/JP05/00090 (published as WO 2005/066657) filed on January 7, 2005, and claims priority to the Japanese application No.

2004-050869, filed February 26, 2004, and U.S. provisional application 60/535,208, filed January 9, 2004.

Allowable Subject Matter

Claims 1 - 11, 13 - 26, 28, 32, and 59 - 66 are allowed.

The following is an examiner's statement of reasons for allowance:

With regards to *independent claims 1 and 32*, the prior art on record fails to expressly disclose a particle detector or a method for detecting position of particles, comprising electrodes for detecting position of particles, said electrodes comprising: one or more global position detection electrodes for detecting global position of particles; wherein *specifically*, the local position within the global position is determined by using the global position detected by said global position detection electrodes the local position detected by said local position detection electrodes, in combination with the rest of the claimed limitations.

Although references such as Giakos (US Patent 6,703,619), Takahashi (US Patent 6,933,506 B2), Takahasi (US Patent 6207958), Friedman et al. (US Patent 7,332,726 B2) and Takahashi et al. (Development of a Multi-grid....Sources; Science Direct; A 513 (2003) 201 - 205) disclose most of the essential parts (particle detector, anodes, and cathodes,) they do not specify using the local position within the global position as claimed, but rather arrangements without a global position electrode. One of ordinary skill in the art would not be motivated to add such an arrangement as claimed to the disclosure of Giakos, Takahasi, Takahasi Friedman and/or Takahashi et al., absent hindsight reasoning. The conventional individual readout methods, such as

those taught by Giakos, Takahasi, Takahasi, Friedman and Takahashi et al, rely on single charge readout lines per each strip/pad. The global arrangement provides two groups, therefore providing a more desirable signal to noise when compared to the conventional arrangement. As such, claims 1 and 32 provides a nonobviousness improvement over the prior art on record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DJURA MALEVIC whose telephone number is 571.272.5975. The examiner can normally be reached on Monday - Friday between 8:30am and 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 571.272.2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2884

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David P. Porta/ Supervisory Patent Examiner, Art Unit 2884

/Djura Malevic/ Examiner, Art Unit 2884 571.272.5975